

REMARKS

Claims 16-29 are presented for examination, of which Claims 16, 19, 22 and 26 are in independent form. Claims 16, 19, 22 and 26 have been amended to define still more clearly what Applicant regards as his invention. Claims 18 and 24 have been amended as to matters of form only; no change in scope is either intended or believed effected by at least these latter changes. Favorable reconsideration is requested.

Claims 16-29 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,809,834 (Sato).

As shown above, Applicant has amended independent Claims 16, 19, 22 and 29 in terms that more clearly define what he regards as his invention. Applicant submits that these amended independent claims, together with the remaining claims dependent thereon, are patentably distinct from the cited prior art for at least the following reasons.

Claim 16 is directed to a printer including a control unit having a first memory for storing image data with a first orientation generated based on print data received from an external apparatus and a transfer unit for performing DMA-transferring of the image data with the first orientation read from the first memory, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image data stored in the second memory. The transfer unit includes a third memory for storing the image data with the first orientation read from the first memory, and reads the image data from the third memory as image data with a second orientation for performing image rotation and transfers the read image data with the second orientation to the second memory.

Sato relates to an image forming apparatus including an image forming section, a page memory for storing image data to be transferred to the image forming section, and a DMA controller. The DMA controller continuously transfers a plurality of words of image data with the same row address from the page memory to the image forming section. Sato discusses the use of the DMA controller to transfer image data from the page memory to a vertical/horizontal conversion, which outputs vertical/horizontal converted image data. The DMA controller returns the converted image data to the same addresses of the page memory by DMA transfer. Subsequently, the DMA controller transfers the converted image data from the page memory to a plotter in a rotated condition. However, Applicant has found nothing in Sato that would teach or suggest “wherein said transfer unit includes a third memory for storing the image data with the first orientation read from the first memory, and reads the image data from said third memory as image data with a second orientation for performing image rotation and transfers the read image data with the second orientation to said second memory,” as recited in Claim 16.

Accordingly, Applicant submits that Claim 16 is not anticipated by Sato.

A review of the other art of record has failed to reveal anything which, in Applicant’s opinion, would remedy the deficiencies of the art discussed above, as a reference against Claim 16.

Claim 22 is directed to a printer including a control unit having a first memory for storing image data for a portrait print sheet generated based on print data received from an external apparatus and a transfer unit for performing DMA-transferring of the image data for the portrait print sheet read from the first memory, and an engine unit having a second memory for storing the image data received from the control unit and a print engine for printing the image

data stored in the second memory. The transfer unit includes a third memory for storing the image data for the portrait print sheet read from the first memory, and reads the image data from the third memory as image data for a landscape print sheet and transfers the read image data for the landscape print sheet to the second memory without transferring the read image data to the first memory if printing is performed on a landscape print sheet, and reads the image data from the third memory as image data for the portrait print sheet and transfers the read image for the portrait print sheet data to the second memory if printing is performed on a portrait print sheet.

For substantially the same reasons discussed above in connection with Claim 16, Applicant has found nothing in Sato that would teach or suggest “wherein said transfer unit includes a third memory for storing the image data for the portrait print sheet read from said first memory, and reads the image data from said third memory as image data for a landscape print sheet and transfers the read image data for the landscape print sheet to said second memory without transferring the read image data to said first memory if printing is performed on a landscape print sheet, and reads the image data from said third memory as image data for the portrait print sheet and transfers the read image for the portrait print sheet data to said second memory if printing is performed on a portrait print sheet,” as recited in Claim 22.

Accordingly, Applicant submits that Claim 22 is not anticipated by Sato.

A review of the other art of record has failed to reveal anything which, in Applicant’s opinion, would remedy the deficiencies of the art discussed above, as a reference against Claim 22.

Independent Claims 19 and 26 are method claims corresponding to apparatus Claims 16 and 22, respectively, and are believed to be patentable the cited prior art for at least the same reasons as discussed above in connection with Claim 16 and 22.

The other claims in this application are each dependent from one or another of the independent claims discussed above and are therefore believed patentable for the same reasons. Since each dependent claim is also deemed to define an additional aspect of the invention, however, the individual reconsideration of the patentability of each on its own merits is respectfully requested.

In view of the foregoing amendments and remarks, early and favorable continued examination of the present application is respectfully requested.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100.

Respectfully submitted,

/Jennifer A. Reda/
Jennifer A. Reda
Attorney for Applicant
Registration No.: 57,840

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

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